CLAIMS

1 1. A video amplifier comp	prising
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- a first filter stage having an input terminal adapted to receive an RF signal and an output
- 3 terminal;

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- an attenuator having an input terminal coupled to the output terminal of said first filter
 - stage and an output terminal, said attenuator comprising a temperature sensitive device; and
 - a second filter stage having an input terminal coupled to the output terminal of the
 - attenuator and an output terminal at which an output signal of said video amplifier is provided.
 - 2. The video amplifier of claim 1 wherein said temperature sensitive device is a thermistor.
 - 3. The video amplifier of claim 1 wherein each of said first filter stage and said second filter
- 2 stage comprises a Sallen-Key filter.
- 1 4. The video amplifier of claim 1 wherein each of said first filter stage and said second filter
- 2 stage has a low-pass characteristic.
- 1 5. The video amplifier of claim 1 wherein each of said first filter stage and said second filter
- 2 stage has a bandpass characteristic.

A radar receiver comprising: 1 6. an RF amplifier having an input terminal adapted to receive an RF signal and an output 2 terminal at which an amplified RF signal is provided; 3 a down-converter having an input terminal coupled to said output terminal of said RF 4 amplifier and an output terminal at which a lower frequency signal is provided; and 5 a video amplifier having an input terminal coupled to said output terminal of said down-6 converter and an output terminal at which a filtered signal is provided, wherein said video 7 amplifier comprises a temperature compensating attenuator. 8 The radar receiver of claim 6 wherein said RF amplifier is comprised of GaAs transistors. 7. The radar receiver of claim 6 wherein said attenuator comprises a thermistor. 8. 1 1 1 The radar receiver of claim 8 wherein said attenuator further comprises at least one 9. resistor coupled to said thermistor to form a voltage divider. n The radar receiver of claim 6 said video amplifier further comprises: 1 10. a first filter stage having an input terminal coupled to said output terminal of said down-2 converter and an output terminal coupled to said temperature compensating attenuator; and 3

a second filter stage having an input terminal coupled to said temperature compensating

attenuator and an output terminal at which said filtered signal is provided.

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- 1 11. The radar receiver of claim 9 wherein each of said first filter stage and said second filter
- 2 stage has a bandpass characteristic.
- 1 12. The radar receiver of claim 11 wherein said bandpass characteristic has a low frequency
- 2 cutoff selected to attenuate a leakage signal.
- 1 13. The radar receiver of claim 11 wherein said bandpass characteristic has a low frequency
- 2 cutoff selected to attenuate a received RF signal reflected by an object located more than a
- 3 predetermined distance from said RF receiver.
 - 14. A radar system comprising:
 - a transmit antenna for transmitting a first RF signal;
 - a receive antenna for receiving a second RF signal; and
 - a receiver circuit coupled to said receive antenna for processing said second RF signal and comprising a temperature compensated video amplifier.
- 1 15. The radar system of claim 14 wherein said temperature compensated video amplifier
- 2 comprises:

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- a first filter stage having an input terminal adapted to receive said second RF signal and
- 2 an output terminal;
- an attenuator having an input terminal coupled to the output terminal of said first filter
- 4 stage and having an output terminal, said attenuator comprising a temperature sensitive device;
- 5 and

- a second filter stage having an input terminal coupled to the output terminal of the 6 attenuator and an output terminal at which an output signal of said video amplifier is provided. 7
- The radar system of claim 15 wherein said receiver circuit further comprises an RF 16. 1
- 2 amplifier having a gain which varies by a first predetermined amount with temperature and
- wherein said attenuator provides a gain which varies by a second predetermined amount with 3
- temperature, wherein said first and second predetermined amounts are substantially equal. 4
- The radar system of claim 14 wherein each of said first filter stage and said second filter 1 17. stage has a bandpass characteristic.
 - The radar system of claim 17 wherein said second RF signal includes a portion of said 18. first RF signal and wherein said bandpass characteristic has a low frequency cutoff selected to attenuate said portion of said first RF signal.
 - The radar system of claim 17 wherein said bandpass characteristic has a low frequency 19.
 - cutoff selected to attenuate a received RF signal reflected by an object located more than a 2
 - 3 predetermined distance from said radar system.
 - 20. The radar system of claim 15 further comprising: 1
 - an analog-to-digital converter responsive to said output signal of said video amplifier for 2
 - providing a digital signal; 3

- 4 a temperature sensor for providing a signal indicative of the temperature of said receiver
- 5 circuit; and
- a digital signal processor responsive to said temperature indicative signal for varying a
- 7 threshold used to process said digital signal.